SDS-SORBITOL70PC 19 Aug 2026

SAFETY DATA SHEET

SORBITOL 70% SOLUTION

CAS No.: 50-70-4

This Safety Data Sheet is issued by Suraj Chemicals as the distributor/supplier of record, based on manufacturer and published GHS / regulatory reference data for this substance. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

GHS Product identifier

SORBITOL 70% SOLUTION
D-Glucitol solution; D-Sorbitol solution (aqueous)
CAS: 50-70-4

Other means of identification

Food additive: E420(ii) (sorbitol syrup)

Recommended use of the chemical and restrictions on use

Relevant uses: Humectant, bulking agent and sweetener in food, beverages and confectionery; excipient in pharmaceuticals, oral care and cosmetics; chemical intermediate. Industrial and professional use only.

Uses advised against: All uses not specified in this section or in section 7.3.

Supplier's details

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 (CLP) / GHS criteria.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture – no hazard pictograms, signal word, hazard statements or precautionary statements are required.

Other hazards which do not result in classification

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB), at levels of 0.1% or higher.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Non-applicable – this product is an aqueous mixture (see 3.2).

Mixtures

Identification	Chemical Name / Classification	Concentration
CAS: 50-70-4	Sorbitol (D-Glucitol) – Not classified	~70% w/w (nominal)
7732-18-5	Water	~30% w/w (nominal, balance)

No components require disclosure under applicable hazard communication regulations, as the product is not classified as hazardous.

4. FIRST AID MEASURES

Description of necessary first-aid measures

By inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

By skin contact
Wash off with soap and plenty of water.

By eye contact
Flush eyes with water as a precaution.

By ingestion
Rinse mouth with water. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in section 2.2 (none, as this is not a classified hazard) and section 11.

Indication of immediate medical attention and special treatment needed, if necessary

No data available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Suitable: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable: None known.

Specific hazards arising from the chemical

Carbon oxides may be formed under fire conditions.

Special protective actions for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid breathing vapours, mist or gas. For personal protection see section 8.
Environmental precautions	No special environmental precautions required.
Methods and materials for containment and cleaning up	Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling	Handle using standard good industrial hygiene practice; no special precautions beyond those in section 2.2 are required.
Conditions for safe storage, including any incompatibilities	Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non-combustible liquids.
Specific end use(s)	Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

No specific occupational exposure limit is established for sorbitol.

Appropriate engineering controls

General industrial hygiene practice.

B. Respiratory protection

Not normally required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges.

C. Specific protection for the hands

Handle with gloves; inspect prior to use and dispose of contaminated gloves per applicable regulations.

D. Eye and face protection

Eye protection tested and approved under NIOSH (US) or EN 166 (EU).

E. Bodily protection

Impervious clothing selected according to the concentration and amount of the substance at the specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	
Physical state at 20°C	Liquid
Odor	No data available
Odour threshold	No data available
Product Description	
pH	~4.5 – 7.0 (typical for 70% solution; general reference)
Relative density	1.280 g/cm³
Water solubility	No data available (fully miscible – product is an aqueous solution)
Volatility / Thermal	
Melting point/freezing point	No data available
Initial boiling point/range	No data available
Evaporation rate	No data available
Vapour pressure	No data available
Vapour density	No data available
Decomposition temperature	No data available
Flammability	
Flash point	No data available
Flammability (liquid)	No data available
Upper/lower flammability or explosive limits	No data available
Auto-ignition temperature	No data available

Other information

Partition coefficient: n-octanol/water	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10. STABILITY AND REACTIVITY

Reactivity	No data available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available.
Conditions to avoid	No data available.
Incompatible materials	Strong oxidizing agents.

Hazardous decomposition products	Carbon oxides may be formed under fire conditions. Other decomposition products: no data available.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

A. Ingestion (acute effect)

Sorbitol has very low acute oral toxicity; published literature reports oral LD50 (rat) > 15.9 g/kg body weight [well-established public toxicological reference, not from supplier SDS]. Large amounts may have a laxative effect.

B. Inhalation / C. Skin and eye contact

No data available.

D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)

IARC: No component of this product present at levels ≥ 0.1% is identified as a probable, possible or confirmed human carcinogen. No data available for germ cell mutagenicity or reproductive toxicity.

E – H. Sensitisation, STOT, aspiration hazard

No data available.

12. ECOLOGICAL INFORMATION

Toxicity	No data available.
Persistence and degradability	No supplier data available; sorbitol is a naturally occurring sugar alcohol generally regarded as readily biodegradable [well-established public reference].
Bioaccumulative potential	No data available.
Mobility in soil	No data available (fully water-soluble).
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either PBT or vPvB at levels of 0.1% or higher.
Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

Disposal methods	Offer surplus and non-recyclable solution to a licensed disposal company. Dispose of contaminated packaging as unused product.

14. TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR/RID)

14.1 UN number	– (not dangerous goods)
14.2 UN proper shipping name	Not dangerous goods
14.3 Transport hazard class(es)	–
14.4 Packing group	–
14.5 Environmental hazard	No
14.6 Special precautions for user	No data available
14.7 Transport in bulk	Not relevant

Transport of dangerous goods by sea (IMDG)

14.1 UN number	–
14.2 UN proper shipping name	Not dangerous goods
14.3 Transport hazard class(es)	–
14.4 Packing group	–
14.5 Marine pollutant	No
14.6 Special precautions for user	No data available
14.7 Transport in bulk	Not relevant

Transport of dangerous goods by air (IATA)

14.1 UN number	–
14.2 UN proper shipping name	Not dangerous goods
14.3 Transport hazard class(es)	–
14.4 Packing group	–
14.5 Environmental hazard	No
14.6 Special precautions for user	No data available
14.7 Transport in bulk	Not relevant

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question	This safety datasheet complies with the general approach of Regulation (EC) No. 1907/2006 (REACH). Sorbitol is permitted as a food additive (E420) under FSSAI (India) and Codex Alimentarius regulations, and is widely used to pharmacopoeial (IP/BP/USP) grade specifications where applicable – consult Suraj Chemicals for grade-specific documentation.
Chemical safety assessment	A chemical safety assessment was not carried out for this product.

16. OTHER INFORMATION

Legislation related to safety data sheets

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3

Not applicable – this product is not classified as hazardous under GHS/CLP.

Advice related to training

Minimal training is recommended to prevent industrial risks for staff using this product, to facilitate comprehension of this safety data sheet and the product label.

Principal bibliographical sources

Manufacturer's Safety Data Sheet (Regulation (EC) No. 1907/2006 format); well-established public toxicological reference data for sorbitol (CAS 50-70-4), used only for the oral LD50 figure in section 11.

Abbreviations and acronyms

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals | CLP: Classification, Labelling and Packaging Regulation | PBT: Persistent, Bioaccumulative and Toxic | vPvB: very Persistent, very Bioaccumulative | LD50: Lethal Dose 50 | IARC: International Agency for Research on Cancer

Disclaimer: The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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